Z97-WS Memory Qualified Vendors List (QVL)

DDR3 3100 MHz Capability BIOS Version:0604

DDR3 3100 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX3U3100W4G12-DMV(XMP)	16GB (4x 4GB)	SS	-	-	12-15-15-35	1.65	●	●	●

DDR3 2933 MHz Capability BIOS Version:0604

DDR3 2933 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
Team	TXD34G2933HC12CBK(XMP)	16GB (4x 4GB)	SS			12-15-15-35	1.65	●	●	●
CORSAIR	CMY16GX3M4A2933C12R(XMP)	8GB (2x 4GB)	SS	-	-	12-14-14-36	1.65	●	●	●

DDR3 2800 MHz Capability BIOS Version:0604

DDR3 2800 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
PanRam	PUD32800C124G2LSK	16GB(4x4GB)	SS	-	-	12-14-14-32	1.65	●	●	●
G.SKILL	F3-2800C11Q-16GTXDG	8GB (2x 4GB)	SS	-	-	11-14-14-35	1.65			●

DDR3 2800 MHz Capability BIOS Version:0604

DDR3 2400 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX3U2400W4G11-DMV(XMP)	8GB (2x 4GB)	SS	-	-	11-13-13-35	1.65		●	●
ADATA	AX3U2400W8G11-DMV(XMP)	16GB (2x 8GB)	DS	-	-	11-13-13-35	1.65		●	●
Apacer	78.BAGFL.AFD0C(XMP)	8GB (2x 4GB)	DS	-	-	11-12-12-30	-		●	●
Apacer	783BAGF3.AFD0C(XMP)	8GB (2x 4GB)	DS	-	-	11-11-11-30	-		●	●
CORSAIR	CMD16GX3M2A2400C10 (Ver4.21)(XMP)	16GB (2x 8GB)	DS	-	-	10-12-12-31	1.65		●	●
CORSAIR	CMY16GX3M2A2400C10A (Ver4.21)(XMP)	16GB (8x 2GB)	DS	-	-	10-12-12-31	1.65		●	●
CORSAIR	CMY16GX3M2A2400C10R (Ver4.21)(XMP)	16GB (2x 8GB)	DS	-	-	10-12-12-31	1.65		●	●
CORSAIR	CMZ16GX3M2A2400C10 (Ver4.21)	16GB (2x 8GB)	DS	-	-	10-12-12-31	1.65		●	●

DDR3 2666 MHz Capability BIOS Version:0602

DDR3 2666 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
Apacer	78.BAGFF.AFC0C(XMP)	8GB (2x 4GB)	DS	-	-	12-13-13-35	-		●	●
Apacer	78.BAGFR.AFD0C(XMP)	8GB (2x 4GB)	DS	-	-	12-13-13-35	-		●	●
Apacer	78.CAGFF.AFD0C(XMP)	16GB (2x 8GB)	DS	-	-	12-13-13-35	-		●	●
CORSAIR	CMD16GX3M4A2666C11 (Ver5.12)(XMP)	16GB (4x 4GB)	DS	-	-	11-13-13-35	1.65		●	●
G.SKILL	F3-2666CL10Q-16GBZHD(XMP)	16GB (4x 4GB)	DS	-	-	10-12-12-31	1.65		●	●
GeIL	GOC332GB2666C11QC(XMP)	32GB (4x 8GB)	DS	-	-	11-13-13-32	1.65		●	●
Kingston	KHX26C11T2K2/8X(XMP)	8GB (2x 4GB)	SS	-	-	2666-11-13-13-32	1.65		●	

DDR3 2133 MHz Capability BIOS Version:0602

DDR3 2133 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
ADATA	AX3U2133W4G10-DR(XMP)	8GB (2x 4GB)	SS	-	-	10-11-11-30	1.65		●	●
ADATA	AX3U2133W8G10-DR(XMP)	16GB (2x 8GB)	DS	-	-	10-11-11-30	1.65		●	●

DDR3 2000 MHz Capability BIOS Version:0602

DDR3 2000 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
AEXEA	AXA3ES4GK2000LG28V(XMP)	4GB (2x 2GB)	DS	-	-	-	1.65		●	●
ASint	SLA302G08-ML2HB(XMP)	4GB	DS	Hynix	H5TQ2G83BFRH9C	9-9-9-27	-		●	●
GeIL	GUP34GB2000C9DC(XMP)	4GB (2x 2GB)	DS	-	-	9-9-9-28	1.65		●	●

DDR3 1866 MHz Capability BIOS Version:0602

DDR3 1866 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMY16GX3M2A1866C9 (Ver 4.21)(XMP)	16GB (2x 8GB)	DS	-	-	9-10-9-27	1.5		●	●
CORSAIR	CMZ16GX3M2A1866C10 (Ver5.29)(XMP)	16GB (2x 8GB)	DS	-	-	10-11-10-30	1.5		●	●

DDR3 1600 MHz Capability BIOS Version:0602

DDR3 1600 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
CORSAIR	CMZ16GX3M4X1600C9 (Ver8.16)(XMP)	16GB (4x 4GB)	DS	-	-	1600-9-9-9-24	1.5		●	●
CORSAIR	CMZ32GX3M4X1600C10 (Ver2.2)(XMP)	32GB (4x 8GB)	DS	-	-	10-10-10-27	1.5		●	●

DDR3 1333 MHz Capability BIOS Version:0602

DDR3 1333 Qualified Vendors List (QVL)										
Vendors	Part No.	Size	SS/DS	Chip Brand	Chip NO.	Timing	Voltage	DIMM socket support (Optional)		
								1 DIMM	2 DIMM	4 DIMM
Apacer	78.B1GDE.9L10C	4GB	DS	Apacer	AM5D5908CEHSBG	9	-		●	●
CORSAIR	CMV8GX3M1A1333C9	8GB	DS	-	-	9-9-9-24	-		●	●

4 DIMM Slots

- **1 DIMM**: Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM**: Supports one pair of modules inserted into eithor the gray slots or the black slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the gray and black slots as two pairs of Dual-channel memory configuration

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.
-It is recommended to install the memory modules from the slots for better overclocking capability.
-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.
-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.
-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.